PTO/SB/21 (05-03)
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Under the Riperwork Reduction	on Act of 1995, no pe	ersons are re				DEPARTMENT OF COMMERCE displays a valid OMB control number.
			Applic	ation Number	10/623,17	70
TRANSMITTAL		Filing	Date	July 18, 2	2003	
FOR	RM		First N	lamed Inventor	Dana A.	Oliver
(to be used for all correspon	ndence after initia	al filing)	Art Un	it	3732	
			Exami	Examiner Name Unkn		
Total Number of Pages in Thi	is Submission	12	Attorn	ey Docket Number	5114	
		ENCLO	SURES	(check all that apply)		
Fee Transmittal Form			ment Par Application		After A Group	Allowance Communication to
Fee Attached	[Drawing	g(s)			I Communication to Board of Is and Interferences
☐ Amendment / Response	[[Licensi	ng-relate	d Papers	1 — ••	I Communication to Group I Notice, Brief, Reply Brief)
After Final] [Petition	l			etary Information
Affidavits/declaration	n(s) [to Conv		☐ Status	Letter
Extension of Time Reque	est	Power of Attorney, Revocation Change of Correspondence Address			ı —	Enclosure(s) identify below):
Express Abandonment Request		nal Disclaimer st for Refund		No As	atement Under 37 CFR 3.73(b); tice of Recordation of signment Document;	
Information Disclosure S	tatement [CD, Number of CD(s)		De Th Vic	gnature Authority dated cember 2, 2003 signed by omas J. DesRosier, Senior ce President of Genzyme rporation	
Certified Copy of Priority Document(s)	,	Remar	ks			
Response to Missing Par Incomplete Application	rts/					
Response to Missing Parts under 37 CFR 1.52 or 1.53	•					
	SIGNATU	JRE OF A	PPLICA	ANT, ATTORNEY, C	R AGENT	
Firm or Richa	ard D. Allison		<u></u>		<u> </u>	····
Individual name	AIG D. AIIISOIT	• • • • • • • • • • • • • • • • • • • •				
Signature	Sol !		a			
. Date March	Date March 19, 2004					
	CERTIFICATE OF MAILING					
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.						
Typed or printed name	Michele Silver	1 0		/	•	
Signature	Date March 19, 2004					

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Approv

PTO/SB/81 (05-03)

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Attorney Docket Number

POWER OF ATTORNEY OR AUTHORIZATION OF AGENT Application Number 10/623,170 Filing Date July 18, 2006 First Named Inventor Dana A. Oliver Art Unit 3732 Examiner Name Unknown

5114

I hereby appoint:							_
Practitioners at Co	ustomer Number 2	4536				ustomer Bar Code ere	
□ Practitioner(s) nar	med below:						_
	Name			Registration	on Numbe	r	
	Richard D. Allison			31,584			
	Isabelle A.S. Blunde	əll		43,321			
	Robert J. Cobert			36,108			
	Thomas J. DesRosi	er		30,	168		
as my/our attorney(s) Trademark Office con	or agent(s) to prosecute nected therewith.	the application	n identifie	d above, and to	transact al	II business in t	he Patent and
Please change the c	orrespondence address f	or the above-	identified	application to:		-	
The above-ment	ioned Customer Number.					Customer or Bar Code	
Practitioners at Cu OR	ustomer Number 2	4536			Label h		
Firm <i>or</i> Individual Name	Genzyme Corporation						
Address	15 Pleasant Street Connector						
Address							
City	Framingham		State	MA	ZIP	01701-9322	
Country	USA						
Telephone	(508) 270-2583		Fax	(508) 872-5415	5		
I am the: Applicant/Inventor.							
	ord of the entire interest. 37 CFR 3.73(b) is enclos).			
	SIGNATU	JRE of Applic	ant or A	ssignee of Reco	ord		<u> </u>
Name Richard	BEAllison, Managing 12	Counsel with a	attached	signature authori	ity		
Signature	N I B	A			<u> </u>		
Date March 1	9, 2004			Telephone	(508) 27	0-2583	
NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required.							
Submit multiple forms if more than one signature is required, see below*. Total of forms are submitted.							

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POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

Application Number	10/623,170
Filing Date	July 18, 2003
First Named Inventor	Dana A. Oliver
Art Unit	3732
Examiner Name	Unknown
Attorney Docket Number	5114

I hereby appoint:					٦
☑ Practitioners at Customer Number 24536 OR			-	Place Customer Number Bar Code Label here	
	med below:				_
	Name		Registration	Registration Number	
•	Deborah A. Dugan		37,315		
	Jennifer L. Dupre		41,722		
	Madge R. Kanter		35,211		
	Elizabeth Lassen		31,	845	
as my/our attorney(s) Trademark Office con	or agent(s) to prosecute the application nected therewith.	ı identifie	d above, and to	transact all business in th	e Patent and
Please change the c	orrespondence address for the above-i	dentified	application to:		
The above-ment	ioned Customer Number.			Place Customer Number Bar Code	
Practitioners at Co	ustomer Number 24536			Label here	
Firm or Individual Name Genzyme Corporation					
Address 15 Pleasant Street Connector					
Address					
City	Framingham	State	MA	ZIP 01701-9322	
Country	USA				
Telephone	(508) 270-2583	Fax	(508) 872-5415	5	
I am the:				-	
☐ Applicant/Invent	or.				
	Assignee of record of the entire interest. See 37 CFR 3.71.				
Certificate under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).					
	SIGNATURE of Applic			<u> </u>	
Name Richard	Altison, Managing IP Counsel with a	attached :	signature authori	ity	
Signature Management of the Signature Management of Signature Management of Signature Management of Signature Management of Signature Manageme					
Date March 1	·	 _	Telephone	(508) 270-2583	
NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.					
Total of forms are submitted.					

This collection of information is required by 37 CFR 1.31 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

Application Number	10/623,170
Filing Date	July 18, 2003
First Named Inventor	Dana A. Oliver
Art Unit	3732
Examiner Name	Unknown
Attorney Docket Number	5114

PTO/SB/81 (05-03)

I hereby appoint:				1		$\overline{}$
☑ Practitioners a OR	t Customer Number	24536		-	Place Customer Number Bar Code Label here	
☑ Practitioner(s)	named below:					
	Nam	16		Registration	on Number	
	Bart G. N	ewland		31,	282	
	Jennifer D. T	ousignant		54,498		
	Y. Philip	Zhang	_	44,372		
as my/our attorney Trademark Office o	(s) or agent(s) to proconnected therewith.	secute the application	identifie	ed above, and to	transact all business in	the Patent and
Please change th	e correspondence a	ddress for the above-io	dentified	application to:		
The above-m	entioned Customer I	Number.	——-j		Place Customer Number Bar Code	
Practitioners at OR	Customer Number	24536			Label here	
Firm <i>or</i> Individual Nam	Firm or Individual Name					
Address	15 Pleasant Street Connector					
Address						
City	Framingham		State	МА	ZIP 01701-932	2
Country	USA					
Telephone	(508) 270-2583		Fax	(508) 872-5415	5	
I am the:					-	
☐ Applicant/Inv	entor.					
Assignee of r	ecord of the entire in	terest. See 37 CFR 3	.71.			•
Certificate under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).						
	SI	GNATURE of Applica	ant or A	ssignee of Reco	ord	
Name Rich	Allison, Mana	ing IP Counsel with a	ttached	signature authori	ty	
Signature Signature						
·	h 19, 2004			Telephone	(508) 270-2583	
NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required.						
Submit multiple forms if more than one signature is required, see below*. Total of forms are submitted.						
Tala and the attack of the factors	tion in good by 07.0					

This collection of information is required by 37 CFR 1.31 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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MAR 2 2 2004

Application Number	10/623,170	
Filing Date	July 18, 2003	
First Named Inventor	Dana A. Oliver	
Art Unit	3732	
Examiner Name	Unknown	
Attorney Docket Number	5114	

I hereby revoke all previous powers of attorney or authorizations of agent given in the above- identified application:					
 ☑ A Power of Attorney or Authorization of Agent is submitted herewith. OR ☑ Please change the correspondence address for the above-identified application to: 					
☑ Customer Numbe	Customer Number 24536 Place Customer Number Bar Code Label here				
⊠ Firm <i>or</i> Individual Name	Genzyme Corporation		•		
Address	15 Pleasant Street Conne	ctor			
Address					
City	Framingham	,			
Country	USA State MA ZIP 01701-9322				
Telephone	(508) 270-2583	Fax	(508) 872-	-5415	
I am the:					
☐ Applicant/Invento	or.				
Assignee of record of the entire interest. See 37 CFR 3.71. Certificate under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)					
SIGNATURE of Applicant or Assignee of Record					
Name Richard D. Allison, Managing IP Counsel with attached Signature Authority signed of December 2, 2003 by Thomas J. DesRosier, Senior Vice President					
Signature					
Date March 19, 2004					
NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.					
	e submitted.	DOIOTT .			_ = 10 ₁₀ = 1

This collection of information is required by 37 CFR 1.36. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce,

PTO/SB/96 (04-03)

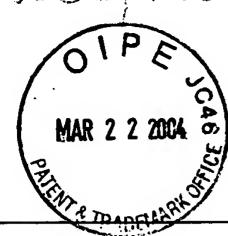
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d manner	STATEMENT UNI	DER 37 CFR 3.73(b)
	nt/Patent Owner: Dana A. Oliver	
Ammlinad		Filed/Jerus Date: July 40, 0000
• •		Filed/Issue Date: July 18, 2003
Entitled	: TISSUE MEMBRANE FIXATION APPARATUS AN	ND METHODS FOR USE THEREOF
		Massachusetts corporation
		ssignee, e.g., corporation, partnership, university, government agency, etc.)
states th	nat it is:	
1.	the assignee of the entire right, title, and intere	st; or
2.	an assignee of less than the entire right, title, a	and interest
	The extent (by percentage) of its ownership	interest is %
in the pa	atent application/patent identified above by virtue of	either:
re	an assignment from the inventor(s) of the patent apple ecorded in the Patent and Trademark Office at Reel (ttached.	lication/patent identified above. The assignment was 014297, Frame 0103, or for which a copy thereof is
OR		
B. □ A st	chain of title from the inventor(s), of the patent appl hown below:	lication/patent identified above, to the current assignee as
•	1. From: To:	_
	The document was recorded in the United States	s Patent and Trademark Office at
	Reel, Frame, or for which a copy the	nereof is attached.
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ı	☐ Additional documents in the chain of title are liste	ed on a supplemental sheet.
must reco	ies of assignments or other documents in the chain of the separate copy (i.e., the original assignment does to be submitted to Assignment Division in accordance rded in the records of the USPTO. See MPEP 302.8 dersigned (whose title is supplied below) is empower	ecument or a true copy of the original document) with 37 CFR Part 3, if the assignment is to be
	March 19, 2004	(TOX C)
	Date	Signature
	(508) 270-2583	Richard D. Allison
	Telephone Number	Typed or printed name
		Managing IP Counsel with attached signature authority

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Title





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UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

FEBRUARY 03, 2004

EDWARDS & ANGELL, LLP DAVID G. CONLIN, ESQ. P.O. BOX 9169 BOSTON, MA 02209

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 07/18/2003

REEL/FRAME: 014297/0103

NUMBER OF PAGES: 3

ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS) BRIEF:

ASSIGNOR:

OLIVER, DANA A.

DOC DATE: 07/15/2003

ASSIGNEE:

GENZYME CORPORATION ONE KENDAL SQUARE CAMBRIDGE, MASSACHUSETTS 02139

SERIAL NUMBER: 10623170

PATENT NUMBER:

FILING DATE: 07/18/2003

ISSUE DATE:

LAZENA MARTIN, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

OMB No. 0651-0011 (exp. 4/94) < BOS2_342075.1>

07-28-2003

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

102508937	1 COVER SHEET ONLY
To the Honorable Commissioner of Patents and Trademarks: Ple	ease record the attached original documents or copy thereof.
1. Name of conveying party(ies):	2. Name and address of receiving party(ies):
Dana A. Oliver	Name: Genzyme Corporation
Additional name(s) of conveying party(ies) attached? Yes No NAR 2 2 2004 AR 2 2 2004 MAR 2 2 2004 MAR 2 2 2004 MAR 2 2 2004 Marger Description Change of Name Description Other: Execution Date: July 15, 2003 4. Application number(s) or patent number(s):	Street Address: One Kendall Square City: Cambridge State: Massachusetts Zip: 02139 Additional name(s) & address(es) attached? Yes No 101612
If this document is being filed together with a new application, the	he execution date of the application is: <u>July 15, 2003</u>
A. Patent Application No(s): Additional numbers attac	B. Patent No.(s) hed? Yes No
5. Name and address of party to whom correspondence concerning document should be mailed: Name: David G. Conlin, Esq. (Reg. No.: 27,026) Street Address: EDWARDS & ANGELL, LLP P.O. Box 9169 City: Boston State: MA Zip: 02209	6. Total number of applications and patents involved: [1]
07/23/2003 AADOFO1 00000020 10623170 02 FC:8021 40.00 0	 7. Total fee (37 CFR 3.41):\$40.00 ☑ Enclosed ☐ Authorized to be charged to deposit account for additional or excess fees. 8. Deposit account number: 04-1105
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	pelief, the foregoing information is true and correct and any Tuly 18,2003 Lature Date pages including cover sheet, attachments, and documents: 3



ASSIGNMENT

I/We, Dana A. Oliver, for good and valuable consideration from Genzyme Corporation having its principal place of business at One Kendall Square, Cambridge, Massachusetts 02139 hereinafter called the Assignee, receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto the Assignee, its successors and assigns, the entire right, title and interest in, to and under an application for Letters Patent of the United States Serial No. ______ filed on ______ for improvements in the TISSUE MEMBRANE FIXATION APPARATUS AND METHODS OF USE THEREOF, priority rights ensuing therefrom, and the inventions and any of them therein set forth and described, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor, together with the right to apply for such Letters Patent.

And for the above consideration I agree promptly upon request of the Assignee, its successors or assigns, to execute and deliver without further compensation any power of attorney, assignment, application, whether original, divisional, continuation or reissue, or other papers which may be necessary or desirable fully to secure to the Assignee, its successors and assigns, the inventions and any of them described in said application and all patent rights therein, in the United States and in any country foreign thereto.

The undersigned agree(s) to furnish all pertinent facts and documents relating to said application, said invention and said patent(s) as may be known and accessible to the undersigned, and will testify as to the same in any interference or litigation related thereto, and will promptly execute and deliver to Assignee any and all papers, instruments or affidavits necessary or desirable to apply for, obtain, maintain or enforce said application or said patent(s) in connection with any interference which may be declared, and any litigation concerning this application or any continuation, division or reissue thereof or Patent(s) or reissue patent(s) issued thereon, and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference or litigation.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States of America resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he or she has the full right to convey the entire interest herein assigned,

and that he or she has not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) Edwards & Angell, LLP of P.O. Box 9169, Boston, MA 02209, U.S.A. the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

State of Florida
County of Diver of day of July ss.

Before me this 15th day of July ss.

Before me this 15th day of July 2003, personally appeared on the day of Diver of Assignment to be his free act and deed.

BOS2_338463.1



Genzyme Corporation

500 Kendall Street Cambridge, MA 02142 Tel.: (617) 252-7500 Fax: (617) 252-7553

SIGNATURE AUTHORITY

I, Thomas J. DesRosier, Senior Vice President and General Counsel of Genzyme Corporation hereby appoint Madge R. Kanter, Richard D. Allison, Elizabeth Lassen and Bart G. Newland, all Managing Intellectual Property Counsel of Genzyme Corporation, with full power and authority to transact any and all business before the United States Patent and Trademark Office, and any foreign counterpart patent office, with the powers of a Corporate Officer of Genzyme Corporation.

Date: December 2, 2003

Thomas J. DesRosier, Esq.
Senior Vice President and General Counsel

GENZYME CORPORATION